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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/588,020	06/06/2000	EIJI NISHIKAWA	106422	9038

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EXAMINER

ABDULSELAM, ABBAS I

ART UNIT	PAPER NUMBER
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2674

DATE MAILED: 04/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/588,020

Applicant(s)

NISHIKAWA, EIJI

Examiner

Abbas I Abdulsalam

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 February 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamamoto et al. (USPN 5774105) in view of Ishizawa et al. (USPN 6411282).

Regarding claims 1 and 6, Yamamoto teaches the use of plural display devices with one display device for displaying system data having a memory characteristics and another device needing no memory characteristics. Yamamoto teaches a ferroelectric liquid crystal having memory characteristics, data and power system such that the data before cutting-off the power is redisplayed. See col. 3, lines 48-53 and col. 7, lines 34-46. Yamamoto discloses that that when switching power supply is tuned off, the power supply controller (7) continues to supply liquid crystal drive voltages to liquid crystal panels (2a, 2b) for a prescribed period. See col. 7, lines 5-21 and Fig. 6. Yamamoto, referring to Fig. 1 also teaches that the power controller (7) is designed to supply optimum liquid crystal drive voltages to drive IC for the liquid crystal panels (2a, 2b).

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See col. 6, lines 7-10 and Fig. 1. However, Yamamoto does not teach a connector for delivering electric power and for sending information, the information sent being displayable on the plural display devices such that the plural display devices are detachably attached to the connector.

Ishizawa on the other teaches a display (6), which can be detached and power itself after detachment and maintain the display. See col. 6, lines 37-45 and Fig. 1. Ishizawa also teaches a power supply of the personal computer main unit (3) is connected to the power supply pin (31B) of the main connector (31) so that the sheet battery is (67) is recharged when the display device (6) is attached. See col. 5, lines 10-26 and Fig. 5.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize Ishizawa's detachable device (6) inside Yamamoto's plural display devices system. One would have been motivated in view of the suggestion in Ishizawa the detachable display (6) as configured in Fig. 1 equivalently performs "displaying the sent information after being detached from the connector". The use of detachable display helps function a display system with enhanced portability as taught by Ishizawa.

Regarding claim 6, in addition to what has been discussed above, Yamamoto discloses a system data display region (2), which is designed to effect writing when storing data by utilizing the memory characteristics of the ferroelectric liquid crystal. See col. 5, lines 22-27.

Regarding claims 2 and 7, Ishizawa teaches when the detachable display is detached, it displays its stored data by powering itself. See col. 6, lines 38-40.

Regarding claims 3-4, 8-11, and 13-14, Yamamoto teaches a liquid crystal controller (9) which transfers the image data outputted from a host computer (3) to the driver IC of the liquid crystal panel. See col. 6, lines 60-67. In addition, Yamamoto discloses a system data display

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region (2), which is designed to effect writing when storing data by utilizing the memory characteristics of the ferroelectric liquid crystal. See col. 5, lines 22-27.

Regarding claim 5 and 12, Yamamoto teaches a host system supplying image data to the display means and in an event of power interruption. See col.2, lines 46-60. It would have been obvious that the transmission tool by which data is supplied can be wireless.

Conclusion

3. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

4. Any inquiry concerning this communication or earlier communication from the examiner should be directed to **Abbas Abdulsalam** whose telephone number is **(703) 305-8591**. The examiner can normally be reached on Monday through Friday (9:00-5:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Richard Hjerpe**, can be reached at **(703) 305-4709**.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).


Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 2600 customer Service office whose telephone number is (703) 306-0377.

Abbas Abdulsalam

Examiner

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April 14, 2004


XIAO WU
PRIMARY EXAMINER